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Cool temperatures and additional snowfall in May combined to keep high elevation snowpacks near or above average over much of the state. Mountain precipitation was generally near to above average during May with the heaviest amounts falling in the northwest and southwest areas of Montana. Streamflows during May were above to well above average except in the southwestern part of the state where below average flows occurred. Flows for the remaining spring and summer months are expected to be above to well above average in northwest and north-central Montana, below to well below average in the southwestern part of the state and near to a little above average elsewhere. Most irrigation reservoirs should fill with the exception of Lima and Clark Canyon Reservoirs in southwest Montana. Irrigation supplies should be adequate in most drainages as a result of good high elevation snowpacks this late in the season. The Surface Water Supply Indexes (SWSI) vary from -1.3 for the Beaverhead River to +3.9 for the Tobacco River in northwestern Montana. Most basins have a SWSI of +1.0 or above which indicates a good water supply for most of Montana.

SNOWPACK

Delayed snowmelt due to cool temperatures and additional snowfall combined to keep high elevation snowpacks near to above average over much of state during May. Snowpack levels remain well above average on the Kootenai and Flathead River Basins west of the Divide and in the headwater areas of the St. Mary, Milk, Marias, Teton, Sun, Smith, Judith and Musselshell Basins east of the Divide. Most other areas of the state have near to a little above average snowpacks remaining except on the Bitterroot and Upper Clark Fork Basins which have below average snowpacks. The Powder River Basin in northern Wyoming also has below to well below average remaining snowpack while the Bighorn, Little Bighorn and Tongue River Drainages have near to above average snowpacks

PRECIPITATION

MOUNTAIN AREAS - Mountain precipitation was near to above average over all the state. Much of the precipitation fell in the form of snow at the higher elevations during the first half of May. West of the Divide, precipitation amounts were above to well above average in the Kootenai and Flathead River Basins and near average elsewhere. East of the Divide, mountain precipitation was generally above to well above average for the month except on the Milk and Lower Yellowstone River Basins where a little below average amounts fell. The heaviest amounts were recorded in the southwest part of the state on the Jefferson, Madison and Gallatin River Basins. Cumulative precipitation totals since October 1 now are near to above average across the state with the heaviest amounts in the northwest and north-central areas of Montana.

VALLEY AREAS - The wet trend established in April continued through May for most of Montana. The vast majority of stations reported above average precipitation. The heaviest precipitation fell across portions of the Upper Yellowstone and Upper Musselshell River Basins where four to six inches have fallen. Four to six inch amounts also fell in the headwaters of the Sun, Teton and Marias River Basins with nearly half of the precipitation falling during the storm of May 17-18. All river basins reported near to above average precipitation for May with the exception of the Bighorn River Basin in southeast Montana which had below average precipitation. A second pocket of below average moisture materialized along a portion of the Missouri Mainstem Basin from near Canyon Ferry Reservoir to Great Falls. However, precipitation for the Missouri Mainstem as a whole was near average.

RESERVOIRS

Most reservoirs in the state are now full or nearly full except for Lima, Clark Canyon, Lake Elwell (Tiber), Nelson, Fresno, Fort Peck and Tongue River Reservoirs. Some reservoirs are being held down to accommodate runoff from high elevation snowmelt.

STREAMFLOW

Streamflows during May were generally above to well above average over most of the state. The exceptions are found in the western and southwestern areas of the state where flows were below to well below average on the Bitterroot, Upper Clark Fork and Jefferson River Drainages. Streamflows for the remainder of the spring and summer months are expected to be above to well above average on the Kootenai, Flathead, St. Mary, Milk, Sun, Teton and Marias River Basins, below to well below average on the Bitterroot and Upper Clark Fork River Basins and generally near to a little above average elsewhere. Drainages with high elevation headwaters will have good sustained streamflows well into the summer as the remaining snow melts. Most major drainages in the state reached peak snowmelt runoff between May 20 and June 7.

SOIL MOISTURE

Mountain soils are generally wet as a result of recent rains and melting snow. Soils at the lower elevations are generally near water holding capacity in the upper soil profiles and water is beginning to move into the deep soil profiles. The deep profiles remain drier than normal over much of the eastern part of the state. Moisture levels will continue to fluctuate with precipitation and warm drying temperatures on those areas not having snow cover.

SURFACE WATER SUPPLY INDEX

The Surface Water Supply Index (SWSI) is a measure of available surface water supplies during the spring and summer months. The index ranges from -4.0 to +4.0. A SWSI of -4.0 represents an extremely dry situation, 0 is near a normal situation and +4.0 represents an extremely wet situation. The SWSI provides a scale to evaluate various levels of wetness or dryness and water supply conditions across the state. The SWSI takes into account snowpack, mountain precipitation, soil moisture and available reservoir storage.

SWSI Scale

SWSI	DESIGNATION
+3.0 to +4.0	Extremely wet
+2.0 to +3.0	Moderately wet
+1.0 to +2.0	Slightly wet
-1.0 to +1.0	Near average
-1.0 to -2.0	Slightly dry
-2.0 to -3.0	Moderately dry
-3.0 to -4.0	Extremely dry

SWSI's are currently available on the following basins. This list will be expanded as SWSI's for other basins are developed

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SWSI as of June 1, 1991 for the remainder of the 1991 irrigation season.

SWSI	BASIN
+3.9	Tobacco River
-0.4	Clark Fork above Blackfoot River
+1.3	Blackfoot River
+0.5	Clark Fork River at Missoula
+0.1	Bitterroot River
+0.4	Clark Fork River below Bitterroot River
-1.3	Beaverhead River
+1.4	Ruby River
+0.9	Big Hole River
-0.1	Boulder River (Jefferson)
+0.3	Jefferson River
+1.1	Madison River
+1.6	Gallatin River
+0.9	Missouri River above Canyon Ferry
+3.2	Smith River
+2.9	Sun River
+3.3	Marias River
+2.9	Musselshell River
+2.6	Milk River
+1.8	Yellowstone River above Livingston
+2.0	Shields River
+1.9	Boulder River (Yellowstone)
+2.2	Stillwater River (Yellowstone)
+1.4	Clarks Fork River
+2.3	Rock-Red Lodge Creek
+1.8	Yellowstone River above Bighorn River
+0.4	Little Bighorn River
+1.4	Tongue River

KOOTENAI RIVER BASIN in Montana

Mountain precipitation was about 135 percent of. Cumulative precipitation since October 1 is now about 140 percent of average. Snowpacks remain well above average at the high elevations while most of the low and mid-elevation snowpacks have melted. Streamflows for the remainder of the season are expected to be near average on the lower elevation tributaries and above to well above average on tributaries with high elevation headwaters. Mainstem runoff should also be above average. The high elevation snowpack should sustain streamflows well into the summer months. The Surface Water Supply Index is +3.9 for the Tobacco River.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
TOBACCO nr Eureka	JUN-JUL	82	90	95	148	100	108	64
	JUN-SEP	100	109	115	146	121	130	79
KOOTENAI bl Libby Dam (1,2)	JUN-JUL	4050	4660	4940	131	5220	5830	3760
	JUN-SEP	5280	6000	6330	132	6660	7380	4778
FISHER nr Libby	JUN-JUL	60	72	81	109	90	102	74
	JUN-SEP	76	89	98	108	107	121	91
YAAK nr Troy	JUN-JUL	165	195	215	134	235	265	160
	JUN-SEP	193	225	245	134	265	295	183
KOOTENAI at Leonia (1,2)	JUN-JUL	4510	5250	5590	130	5930	6670	4290
	JUN-SEP	5800	6670	7070	131	7470	8340	5391

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
LAKE KOOCANUSA	5748.0	2827.0	3173.0	3183.0

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
EAST KOOTENAI in B.C.	14	154	187
KOOTENAI MAINTSTEM in MT	8	158	176
TOBACCO	2	116	177
FISHER	1	0	0
YAAK	3	125	176
KOOTENAI in MT	11	151	176
KOOTENAI ab Bonners Ferry	25	152	181

FLATHEAD RIVER BASIN

May mountain precipitation was about 125 percent of average. Since October 1, cumulative precipitation is now about 120 percent of average. The snowpack at the higher elevations remains well above average on the North and Middle Fork of the Flathead River Basins and above average elsewhere. May streamflows were above average. Streamflows for the remainder of the season are expected to range from about 115 percent of average on the Swan River to about 150 percent of average on the North Fork Flathead River.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
NF FLATHEAD nr Columbia Falls	JUN-JUL	1250	1320	1370	150	1420	1490	915
	JUN-SEP	1470	1550	1610	147	1670	1750	1094
MF FLATHEAD nr West Glacier	JUN-JUL	1150	1220	1260	136	1300	1370	926
	JUN-SEP	1340	1410	1460	135	1510	1580	1082
SF FLATHEAD nr Columbia Fls (1,2)	JUN-JUL	1210	1340	1400	129	1460	1590	1084
	JUN-SEP	1350	1490	1550	127	1610	1750	1223
FLATHEAD at Columbia Falls (2)	JUN-JUL	3860	4020	4130	138	4240	4400	2997
	JUN-SEP	4410	4610	4750	136	4890	5090	3490
STILLWATER nr Whitefish	JUN-JUL	95	103	108	138	113	121	78
	JUN-SEP	118	126	132	135	138	146	98
WHITEFISH nr Kalispell	JUN-JUL	71	74	76	133	78	81	57
	JUN-SEP	86	89	92	131	95	98	70
SWAN nr Bigfork	JUN-JUL	350	375	390	116	405	430	337
	JUN-SEP	435	465	485	115	505	535	423
FLATHEAD nr Polson (1,2)	JUN-JUL	4200	4530	4680	133	4830	5160	3514
	JUN-SEP	4770	5190	5380	132	5570	5990	4078

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CAMAS (4)	45.2	42.4	34.2	31.3
MISSION VALLEY (8)	100.0	43.8	81.1	67.9
HUNGRY HORSE	3451.0	2324.0	2798.0	2663.0
FLATHEAD LAKE	1791.0	1546.0	1532.0	1468.0

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
NORTH FORK FLATHEAD	8	113	168
MIDDLE FORK FLATHEAD	4	132	155
SOUTH FORK FLATHEAD	2	68	109
STILLWATER-WHITEFISH	5	99	160
SWAN	8	93	116
MISSION VALLEY	6	101	118
LITTLE BITTERROOT-ASHLEY	1	0	0
JOCKO	5	128	113
FLATHEAD	23	107	136

UPPER CLARK FORK RIVER BASIN

Mountain precipitation during May was near average. The cumulative precipitation total since October 1 is near average. High elevation snowpacks are near to a little above average in the Rock Creek and Blackfoot River Drainages and below to well below average elsewhere. Streamflows during May ranged from near average on the Blackfoot River to well below average on the Upper Clark Fork River and its tributaries. Streamflows for the remaining spring and summer season are generally expected to be below to well below average. Most major streams in the basin reached peak streamflow levels in late May. The Surface Water Supply Indexes (SWSI) are -0.4 for the Clark Fork River above the Blackfoot, +1.3 for the Blackfoot River and +0.5 for the Clark Fork River at Missoula.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
MOULTON RES inflow (million gal.)	JUN-JUL	16.0	39	55	60	71	94	92
WARM SPRINGS CK at Anaconda (2)	JUN-JUL	8.4	13.2	16.4	63	19.6	24	26
	JUN-SEP	13.0	19.0	23	66	27	33	35
LITTLE BLACKFOOT nr Garrison	JUN-JUL	6.0	19.0	28	70	37	50	40
	JUN-SEP	8.0	24	34	71	44	60	48
FLINT CK nr Southern Cross (2)	JUN-JUL	1.4	3.3	4.6	52	5.9	7.8	8.8
	JUN-SEP	1.7	4.4	6.2	53	8.0	10.7	11.6
FLINT CK bl Boulder Ck	JUN-JUL	8.8	15.5	20	54	25	31	37
	JUN-SEP	15.0	24	30	56	36	45	54
LOWER WILLOW CK RES inflow	JUN-JUL	0.8	1.9	2.6	51	3.3	4.4	5.1
	JUN-SEP	1.1	2.3	3.1	52	3.9	5.1	6.0
MF ROCK CK nr Philipsburg	JUN-JUL	24	29	33	73	37	42	45
	JUN-SEP	29	35	39	74	43	50	53
ROCK CK nr Clinton	JUN-JUL	85	107	122	70	137	159	174
	JUN-SEP	114	139	156	73	173	198	213
NEVADA CK nr Finn	JUN-JUL	0.3	2.6	4.2	51	5.8	8.1	8.2
	JUN-SEP	1.3	3.9	5.6	56	7.3	9.9	10.0
CLEARWATER nr Clearwater	JUN-JUL	44	55	63	98	71	82	64
	JUN-SEP	55	66	73	99	80	91	74
BLACKFOOT nr Bonner	JUN-JUL	280	350	395	88	440	510	447
	JUN-SEP	360	435	485	89	535	610	542
CLARK FORK ab Milltown	JUN-JUL	105	168	210	56	250	315	372
	JUN-SEP	160	235	285	59	335	410	481
CLARK FORK ab Missoula	JUN-JUL	435	535	605	74	675	775	819
	JUN-SEP	580	690	770	75	850	960	1023

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
GEORGETOWN LAKE	31.0	30.8	30.3	26.5
LOWER WILLOW CREEK	4.9	5.1	5.1	4.5
NEVADA CREEK	12.6	12.4	12.7	11.6

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
CLARK FORK ab FLINT CREEK	7	115	88
FLINT CREEK	3	88	65
ROCK CREEK	1	92	101
CLARK FORK ab BLACKFOOT	11	109	87
BLACKFOOT	10	125	111
UPPER CLARK FORK	19	118	104

BITTERROOT RIVER BASIN

Mountain precipitation during May was near average. Cumulative precipitation since October 1 also is now near average. Streamflows during May ranged from near to below average. Most streams reached peak snowmelt runoff in early June. Streamflows for the remaining spring and summer months are expected to be near to below average. The Surface Water Supply Index (SWSI) for the Bitterroot River is +0.1.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
WF BITTERROOT nr Conner (2)	JUN-JUL	44	58	68	82	78	92	83
	JUN-SEP	52	69	80	82	91	108	97
BITTERROOT nr Darby	JUN-JUL	175	215	240	84	265	305	285
	JUN-SEP	215	255	285	85	315	355	334
ROCK CK nr Darby (2)	JUN-JUL	27	33	37	82	41	47	45
	JUN-SEP	32	38	42	84	46	53	50
SKALKAHO CK nr Hamilton	JUN-JUL	21	24	26	84	28	31	31
	JUN-SEP	26	30	32	84	34	38	38
BURNT FORK CK nr Stevensville (2)	JUN-JUL	11.7	14.6	16.5	85	18.4	21	19.4
	JUN-SEP	15.0	19.0	21	84	24	27	25
BITTERROOT at Missoula	JUN-JUL	530	600	650	82	700	770	796
	JUN-SEP	620	700	755	82	810	890	920

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
PAINTED ROCKS LAKE	31.7	33.9	33.4	30.4
COMO	34.9	31.4	31.7	28.2

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
WEST FORK BITTERROOT	4	126	87
EAST SIDE BITTERROOT	2	92	101
WEST SIDE BITTERROOT	6	117	83
BITTERROOT	12	113	87

LOWER CLARK FORK RIVER BASIN

May mountain precipitation was about 140 percent of average. High elevation snowpack is near average. May streamflows were generally near to below average. Streamflows for the remaining spring and summer months are expected to be below average on the Clark Fork River between Missoula and St. Regis and near to a little above average in the lower reaches. The smaller tributaries are forecast to be near average. The Surface Water Supply Indexes (SWSI) are +0.5 for the Clark Fork River at Missoula, +0.1 for the Bitterroot River and +0.4 for the Clark Fork River below the Bitterroot River.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
CLARK FORK ab Missoula	JUN-JUL	435	535	605	74	675	775	819
	JUN-SEP	580	690	770	75	850	960	1023
CLARK FORK bl Missoula	JUN-JUL	995	1150	1250	77	1350	1510	1615
	JUN-SEP	1230	1400	1520	78	1640	1810	1943
CLARK FORK at St. Regis (1)	JUN-JUL	890	1290	1470	71	1650	2050	2062
	JUN-SEP	1150	1600	1800	72	2000	2450	2493
CLARK FORK nr Plains (1,2)	JUN-JUL	4150	5060	5470	94	5880	6790	5824
	JUN-SEP	5100	6110	6570	95	7030	8040	6904
THOMPSON nr Thompson Falls	JUN-JUL	86	97	104	108	111	122	96
	JUN-SEP	110	124	134	108	144	158	124
PROSPECT CK at Thompson Falls	JUN-JUL	41	46	50	104	54	59	48
	JUN-SEP	49	55	60	105	65	71	57
CLARK FK at Whitehorse Rpds (1,2)	JUN-JUL	4630	5660	6130	96	6600	7630	6368
	JUN-SEP	5630	6780	7300	96	7820	8970	7594

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

STREAMFLOW FORECASTS

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
NOXON RAPIDS	335.0	331.3	331.3	270.4

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER CLARK FORK	19	118	104
BITTERROOT	12	113	87
LOWER CLARK FORK	14	111	104
CLARK FORK TOTAL	40	116	101
FLATHEAD	19	107	142
PEND OREILLE	58	109	117

JEFFERSON RIVER BASIN

May mountain precipitation was about 125 percent of average. The cumulative total since October 1 is now near average. High elevation snowpacks are generally near to above average except in the Red Rock River Drainage where below average snowpacks remain. Streamflows during May were generally below to well below average except on the Red Rock River Drainage where rain and melting snow produced a little above average flows. Streamflows for the remainder of the season are expected to be below to well below average on the Red Rock and Boulder River Drainages and near to a little below average elsewhere. Clark Canyon and Lima Reservoir storage levels are about one-half capacity while Ruby Reservoir is full. The Surface Water Supply Indexes (SWSI) are: Beaverhead River -1.3; Ruby River +1.4; Big Hole River +0.9; Boulder River -0.1; Jefferson River +0.3.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
RED ROCK RIVER near Monida (2)	JUN-JUL	6.0	8.0	22	51	36	56	43
	JUN-SEP	7.0	15.0	30	58	45	68	52
BEAVERHEAD RIVER near Grant (2)	JUN-JUL	10.0	46	71	116	96	132	61
	JUN-SEP	25	70	100	116	130	175	86
BEAVERHEAD RIVER at Barratts (2)	JUN-JUL	34	73	100	116	127	166	86
	JUN-SEP	63	109	140	119	171	220	118
RUBY RIVER near Alder	JUN-JUL	27	38	45	92	53	64	49
	JUN-SEP	37	51	60	91	69	83	66
BIG HOLE RIVER near Melrose	JUN-JUL	285	345	390	101	435	495	387
	JUN-SEP	330	400	450	100	500	570	448
BOULDER RIVER near Boulder	JUN-JUL	9.0	22	30	67	38	51	45
	JUN-SEP	11.0	25	35	69	45	59	51
WILLOW CREEK near Harrison	JUN-JUL	2.2	6.0	8.5	71	11.0	14.8	11.9
	JUN-SEP	2.7	7.1	10.0	70	12.9	17.3	14.3
JEFFERSON near Three Forks (2)	JUN-JUL	260	375	450	94	525	640	480
	JUN-SEP	275	430	540	91	650	805	595

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
LIMA	84.0	47.3	46.2	67.0
CLARK CANYON	255.6	112.8	97.6	171.0
RUBY RIVER	38.8	40.4	36.7	38.0

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
BEAVERHEAD	12	203	114
RUBY	5	163	153
BIGHOLE	9	147	116
BOULDER	3	119	94
JEFFERSON	23	162	118

MADISON RIVER BASIN

Mountain precipitation for May was well above average. The cumulative total since October 1 is near average. Snowpacks at the higher elevations are near to above average. Streams in the basin reached peak snowmelt runoff in late May. Streamflows for the remainder of the season are expected to be near to below average. However, the residual high elevation snowpacks will help sustain flows well into the summer. The Surface Water Supply Index (SWSI) for the Madison River is +1.1.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
MADISON RIVER near Grayling (2)	JUN-JUL	111	140	160	76	180	210	210
	JUN-SEP	187	220	245	77	270	305	320
MADISON RIVER near McAllister (2)	JUN-JUL	215	260	290	76	320	365	380
	JUN-SEP	365	410	445	79	480	525	560

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
ENNIS LAKE	41.0	36.4	37.1	35.7
HEBGEN LAKE	377.5	360.4	367.0	298.3

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
MADISON above HEBGEN	5	147	93
LOWER MADISON	6	159	118
MADISON	11	156	110

GALLATIN RIVER BASIN

May precipitation was about 125 percent of average for the mountainous areas. The cumulative precipitation total since October 1 is near average. The snowpacks at the higher elevations are near to a little above average. May streamflows were near to a little above average. Most streams reached peak snowmelt runoff near June 6. Streamflows for the remainder of the spring and summer months are forecast to be near to above average. The high elevation snow should help sustain good streamflows well into the summer months. The Surface Water Supply Index (SWSI) for the Gallatin River is +1.6.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---	FUTURE	CHANCE OF EXCEEDING *			---WETTER--->	
GALLATIN RIVER near Gateway	JUN-JUL	305	335	350	112	370	395	313
	JUN-SEP	375	405	425	108	445	475	393
E & W FK HYALITE CK nr Bozeman	JUN-JUL	16.6	19.2	21	121	23	25	17.3
	JUN-SEP	20	23	25	119	27	29	21
HYALITE CREEK near Bozeman (2)	JUN-JUL	25	28	30	125	32	35	24
	JUN-SEP	32	35	37	123	39	42	30
GALLATIN RIVER at Logan	JUN-JUL	270	335	375	121	415	480	311
	JUN-SEP	360	430	475	119	520	590	398

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
MIDDLE CREEK	8.0	7.8	7.5	6.8

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER GALLATIN	4	139	108
EAST GALLATIN	4	121	96
GALLATIN	7	140	97

MAINSTEM MISSOURI RIVER BASIN

During May mountain precipitation was near average. The cumulative precipitation total since October 1 remains near average. High elevation mountain snowpacks are near to above average in the headwater basins and well above average on the tributaries in the central and northern areas of the state. High elevation snowpacks in the Sun, Teton and Marias River Basins are about double the average. May streamflows ranged from below average on the Jefferson and Smith River Basins to well above average on the northern tributaries. Streamflows on the Missouri Mainstem were generally near to a little below average. Streamflows for the remaining spring and summer period are expected to be near average on the Missouri Mainstem from Toston to Ft. Benton and above average in the lower reaches. The Surface Water Supply Index (SWSI) for the Missouri River above Canyon Ferry is +0.9.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
MISSOURI RIVER at Toston (2,3)	JUN-JUL	805	980	1100	89	1220	1390	1236
	JUN-SEP	1090	1310	1450	91	1590	1810	1597
PRICKLY PEAR CREEK nr Clancy	JUN-JUL	4.1	7.0	9.0	69	11.0	13.9	13.1
	JUN-SEP	5.9	9.5	12.0	70	14.5	18.1	17.2
SUN RIVER at Gibson Dam (2)	JUN-JUL	390	425	450	150	475	510	300
	JUN-SEP	435	475	500	144	525	565	348
MISSOURI RIVER at Ft Benton (2,3)	JUN-JUL	1110	1580	1900	109	2220	2690	1740
	JUN-SEP	1570	2090	2450	104	2810	3330	2350
MARIAS RIVER near Shelby (2,3)	JUN-JUL	345	435	500	185	565	655	270
	JUN-SEP	370	465	530	183	595	690	290
MISSOURI RIVER at Virgelle (2,3)	JUN-JUL	1580	2130	2500	114	2870	3420	2200
	JUN-SEP	2180	2790	3200	113	3610	4220	2830
MISSOURI RIVER near Landusky (2,3)	JUN-SEP	2310	3020	3500	120	3980	4690	2900
MISSOURI RIVER blw Fort Peck (2,3)	JUN-JUL	1430	2240	2800	125	3360	4170	2240
	JUN-SEP	1830	2770	3400	123	4030	4970	2740
LAKE SAKAKAWEA Inflow (2,3)	JUN-JUL	5220	6880	8000	121	9120	10800	6629
	JUN-SEP	6810	8590	9800	120	11000	12800	8153

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

(3) - Forecasts are unoffically coordinated with the NWS.

STREAMFLOW FORECASTS

FORECAST POINT	PERIOD	90%	70%	50%	30%	10%	30-YR AVG (KAF)	10-YR AVG (KAF)	10-YR MIN (KAF)
MISSOURI RIVER at Toston (2,3)	JUN-JUL	805	980	1100	1220	1390	1234		
	JUN-SEP	1090	1310	1450	1590	1810	1597		
PRICKLY PEAR CREEK nr Clancy	JUN-JUL	6.1	7.0	8.0	9.0	11.0	13.9	11.1	
	JUN-SEP	9.9	9.5	12.0	20	24.3	18.1	17.2	
SUN RIVER bl Gibson Dam (2)	JUN-JUL	390	425	450	470	475	510	390	
	JUN-SEP	455	475	500	524	525	565	548	
MISSOURI RIVER at Pelican (2,3)	JUN-JUL	1110	1280	1360	1450	1620	1650	1240	
	JUN-SEP	1510	2090	2450	2810	3430	3150		
MARIAS RIVER near Shelby (2,3)	JUN-JUL	345	435	500	585	655	570		
	JUN-SEP	310	465	590	905	980	790		
MISSOURI RIVER at Virgelle (2,3)	JUN-JUL	1580	2110	2500	2870	3420	3200		
	JUN-SEP	2180	2990	3700	4510	4230	3830		
MISSOURI RIVER near Landusky (2,3)	JUN-SEP	2110	3020	3500	3960	4690	3900		
MISSOURI RIVER blw Fort Peck (2,3)	JUN-JUL	1430	2240	2800	3360	4170	3240		
	JUN-SEP	1830	2770	3600	4620	4970	3740		
LAKE KOOCANUSA Inflow (2,3)	JUN-JUL	3210	4440	5000	6190	8060	6629		
	JUN-SEP	4810	6830	7800	9800	11000	8153		

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.
(3) - Forecasts are unofficially coordinated with the BOR.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CANYON FERRY LAKE	2043.0	1669.0	1540.0	1672.0
HELENA VALLEY	9.2	8.2	8.2	7.5
LAKE HELENA	10.4	10.7	11.1	10.0
HAUSER & HELENA	61.9	62.5	63.6	60.5
HOLTER LAKE	81.9	81.0	81.4	74.9
FORT PECK LAKE (MAF)	18.9	11.1	11.6	15.7

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
MISSOURI HEADWATERS	35	153	108
WEST SIDE MISSOURI	4	116	84
SMITH-BELT	4	96	138
MAINSTEM MISSOURI	8	102	112
SUN-TETON-MARIAS	6	176	202
JUDITH-MUSSELSHELL	5	95	135
MISSOURI above FORT PECK	50	146	122
MILK RIVER	6	200	150
MISSOURI in MONTANA	55	146	121
MISSOURI blw YELLOWSTONE	99	126	118

SMITH-JUDITH-MUSSELSHELL RIVER BASINS

Mountain precipitation was about 125 percent of average for May. The cumulative total since October 1 is snow about 115 percent of average. At the higher elevations, additional snowfall and delayed snowmelt resulted in above to well above average snowpacks on June 1. Most streams reached peak snowmelt runoff between May 20 and May 25. Streamflows for the remaining spring and summer months are forecast to be above average and the snow at the higher elevations should hold good flows well into the summer months. Most irrigation reservoirs are full or nearly filled to capacity. The Surface Water Supply Index (SWSI) is +3.2 for the Smith River and +2.9 for the Musselshell River.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---		FUTURE			---WETTER--->	
		-----		CHANCE OF EXCEEDING *			-----	
SMITH RIVER nr Ft. Logan	JUN-JUL	52	57	60	176	63	68	34
	JUN-SEP	65	71	75	160	79	85	47
SHEEP CK nr White Sulphur Springs	JUN-JUL	11.5	13.6	15.0	142	16.4	18.5	10.6
	JUN-SEP	14.7	16.9	18.5	136	20	22	13.6
NF MUSSELSHELL near Delpine	JUN-JUL	3.0	3.6	4.0	167	4.4	5.0	2.4
	JUN-SEP	4.2	5.0	5.5	167	6.0	6.8	3.3
SF MUSSELSHELL abv Martinsdale	JUN-JUL	24	35	43	148	51	62	29
	JUN-SEP	30	42	50	152	58	70	33

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
SMITH RIVER	10.6	11.5	10.4	10.8
NEWLAN CREEK	12.4	12.1	11.1	10.6
BAIR	7.0	7.2	7.1	6.4
MARTINSDALE	23.1	21.6	22.9	17.4
DEADMAN'S BASIN	72.2	60.2	41.6	57.4

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SMITH-BELT	4	96	138
JUDITH-MUSSELSHELL	5	95	135

SUN-TETON-MARIAS RIVER BASINS

Mountain precipitation was about 115 percent of average for May. The cumulative total since October 1 is now about 140 percent of average. High elevation snowpacks remain well above average in the headwater areas along the Continental Divide. Most areas are reporting nearly twice the average amounts. May streamflows were well above average. Flows for the remaining spring and summer period are expected to remain well above average. Some reservoirs are being held down in anticipation of the above average runoff yet to come from melting snow. The Surface Water Supply Index (SWSI) is +3.3 for the Marias River and +2.9 for the Sun River.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
SUN RIVER at Gibson Dam (2)	JUN-JUL	390	425	450	150	475	510	300
	JUN-SEP	435	475	500	144	525	565	348
TWO MEDICINE CREEK nr Browning (2)	JUN-JUL	183	215	240	216	265	295	111
	JUN-SEP	205	235	260	210	285	315	124
BADGER CREEK near Browning (2)	JUN-JUL	89	104	115	189	126	141	61
	JUN-SEP	118	134	145	188	156	172	77
SWIFT RESERVOIR Inflow nr Dupuyer	JUN-JUL	54	63	70	175	77	87	40
	JUN-SEP	71	81	88	169	95	105	52
DUPUYER CREEK near Valier	JUN-JUL	2.6	8.2	12.0	143	15.8	21	8.4
	JUN-SEP	3.4	9.7	14.0	137	18.3	25	10.2
CUT BANK CREEK at Cut Bank	JUN-JUL	57	68	75	150	82	93	50
	JUN-SEP	68	79	87	147	95	106	59
MARIAS RIVER near Shelby (2,3)	JUN-JUL	345	435	500	185	565	655	270
	JUN-SEP	370	465	530	183	595	690	290

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

(3) - Forecasts are unoffically coordinated with the NWS.

STREAMFLOW FORECASTS

FORECAST POINT	PCST	<---DRIER--- FUTURE ---WETTER--->				
		------ CHANCE OF EXCEEDING * ------				
	EXPTD (KAF)	90% (KAF)	70% (KAF)	50% (KAF)	30% (KAF)	10% (KAF)
SUN RIVER at Gibson Dam (3)	JUN-JUL	320	425	450	475	510	560
	JUN-SEP	435	475	500	525	565	590
TWO MEDICINE CREEK at Browning (3)	JUN-JUL	183	215	240	265	295	325
	JUN-SEP	205	235	260	285	315	340
BADGER CREEK near Browning (3)	JUN-JUL	89	104	115	125	141	61
	JUN-SEP	118	134	145	155	172	77
SWIFT RESERVOIR Inflow nr Dupuyer (3)	JUN-JUL	54	63	70	77	87	40
	JUN-SEP	71	81	88	95	105	52
DUPUYER CREEK near Valier	JUN-JUL	2.6	8.2	12.0	15.8	21	8.4
	JUN-SEP	3.4	9.7	14.0	18.3	25	10.2
CUT BANK CREEK at Cut Bank	JUN-JUL	37	68	75	82	93	50
	JUN-SEP	68	79	87	95	106	59
MARIAS RIVER near Shelby (2,3)	JUN-JUL	345	435	500	565	655	370
	JUN-SEP	370	465	530	595	690	390

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the values in the table.

The average is computed for the 1981-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

(3) - Forecasts are unofficially coordinated with the BOR.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
GIBSON	99.1	85.0	93.3	90.2
PISHKUN	32.0	30.8	30.6	29.0
WILLOW CREEK	32.2	31.6	32.1	28.0
LOWER TWO MEDICINE LAKE	11.9	12.6	12.4	12.4
FOUR HORNS LAKE	19.2	12.4	13.6	13.2
SWIFT	30.0	25.1	27.2	24.5
LAKE FRANCES	112.0	101.0	105.1	85.4
LAKE ELWELL (TIBER)	1347.0	811.9	871.5	662.6

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SUN-TETON	3	205	240
MARIAS	3	166	190
SUN-TETON-MARIAS	6	176	202

ST. MARY and MILK RIVER BASINS

May mountain precipitation was a little below average. Since October 1, the cumulative precipitation total is about 130 percent of average. Snowpacks at the higher elevations remain well above average in the headwater areas along the Continental Divide while snowpacks in the Bear Paw Mountains are now mostly melted. Runoff during May was much above average on most streams. Streamflows for the remaining spring and summer months are expected to be above to well above average. Some reservoirs have been held down in anticipation of the above average runoff yet to occur from melting snow. All storage systems are expected to fill. The Surface Water Supply Index (SWSI) is +2.6 for the Milk River (USBR Project Water Users).

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---	FUTURE			--WETTER--->		
		CHANCE OF EXCEEDING *						
SWIFTCURRENT CK at Sherburne (2)	JUN-JUL	64	71	75	112	79	86	67
	JUN-SEP	78	85	90	106	95	103	85
ST. MARY RIVER nearr Babb (2)	JUN-JUL	260	300	325	119	350	390	273
	JUN-SEP	330	370	400	117	430	470	342

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
LAKE SHERBURNE	64.3	37.5	49.2	30.3
FRESNO	127.0	100.2	104.8	89.4
BEAVER CREEK	3.5	3.4	3.4	3.2
NELSON	66.8	37.0	54.7	41.7

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
MILK HEADWATERS	2	200	167
BEAR PAW	4	0	0
MILK RIVER	6	200	150
ST. MARY	3	128	142
ST. MARY and MILK	7	128	139
BOW RIVER in ALBERTA	8	161	211
OLDMAN RIVER in ALBERTA	2	146	265

UPPER YELLOWSTONE RIVER BASIN

Mountain precipitation during May was about 120 percent of average. Cumulative precipitation amounts since October 1 are now about 110 percent of average. High mountain snowpacks are generally near to above average for June 1. Streamflows during May were above average and most streams reaches peak snowmelt runoff near June 6 with the exception of the Shields River which peaked in May. Streamflows for the remainder of the season are forecast to be near or a little above average. The remaining high elevation snowpack will help to hold flow well into the summer months. The Surface Water Supply Indexes (SWSI) are: Yellowstone River above Livingston +1.8; Shields River +2.0; Boulder River +1.9; Stillwater River +2.2; Rock-Red Lodge Creek +2.3; Yellowstone River above the Bighorn River +1.8.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
YELLOWSTONE at Lake Outlet	JUN-JUL	390	435	465	95	495	540	491
	JUN-SEP	595	650	685	95	720	775	720
YELLOWSTONE at Corwin Springs	JUN-JUL	970	1080	1150	95	1220	1330	1210
	JUN-SEP	1330	1430	1500	96	1570	1670	1560
YELLOWSTONE RIVER near Livingston	JUN-JUL	1160	1270	1350	96	1430	1540	1410
	JUN-SEP	1560	1670	1750	96	1830	1940	1820
SHIELDS RIVER near Livingston	JUN-JUL	59	79	92	115	105	125	80
	JUN-SEP	73	95	110	112	125	147	98
BOULDER RIVER at Big Timber	JUN-JUL	275	305	325	120	345	375	271
	JUN-SEP	305	335	355	117	375	405	303
W. ROSEBUD CREEK near Roscoe (2)	JUN-JUL	46	53	57	108	61	68	53
	JUN-SEP	64	71	75	104	80	86	72
STILLWATER RIVER nr Absarokee (2)	JUN-JUL	350	405	440	108	475	530	407
	JUN-SEP	455	510	550	108	590	645	507
CLARKS FORK RIVER near Belfry	JUN-JUL	320	370	400	99	430	480	406
	JUN-SEP	380	425	460	98	495	540	469
RED LODGE CK blw Cooney Res (2)	JUN-JUL	26	34	40	160	46	54	25
	JUN-SEP	36	44	50	139	56	64	36
YELLOWSTONE RIVER at Billings (3)	JUN-JUL	2160	2470	2680	100	2890	3200	2680
	JUN-SEP	2820	3140	3350	100	3560	3880	3350

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

(3) - Forecasts are unoffically coordinated with the NWS.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
MYSTIC LAKE	21.0	5.6	2.1	5.2
COONEY	27.4	22.1	21.9	19.1

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
YELLOWSTONE ab LIVINGSTON	10	108	103
SHIELDS	4	87	86
BOULDER-STILLWATER	3	92	126
CLARK'S FORK-ROCK CREEK	9	106	113
YELLOWSTONE above BIGHORN	22	106	110

LOWER YELLOWSTONE RIVER BASIN

Mountain precipitation during May was about 90 percent of average. The cumulative precipitation total since October 1 is 115 percent of average. Mountain snowpacks are generally near to a little above average except on the Powder River Basin which has below average snowpacks for this time of year. May streamflows were above average and most streams reached peak snowmelt runoff near May 23. Streamflows for the spring and summer months are expected to be near or a little above average. The Surface Water Supply Index (SWSI) is +1.8 for the Yellowstone River above the Bighorn River, +0.4 for the Little Bighorn River and +1.4 for the Tongue River.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
YELLOWSTONE RIVER at Billings (3)	JUN-JUL	2160	2470	2680	100	2890	3200	2680
	JUN-SEP	2820	3140	3350	100	3560	3880	3350
BIG HORN RIVER nr St. Xavier (2,3)	JUN-JUL	870	1130	1300	108	1470	1730	1200
	JUN-SEP	1030	1310	1500	108	1690	1970	1380
LITTLE BIGHORN RIVER nr Hardin (3)	JUN-JUL	70	90	103	128	116	136	80
	JUN-SEP	84	106	120	123	135	156	97
TONGUE RIVER near Decker (2,3)	JUN-JUL	89	130	157	110	185	225	143
	JUN-SEP	104	149	180	108	210	255	164
YELLOWSTONE at Miles City (2,3)	JUN-JUL	2820	3520	4000	103	4480	5180	3850
	JUN-SEP	3680	4440	4950	103	5460	6220	4770
POWDER RIVER at Moorhead (3)	JUN-JUL	72	118	150	117	182	230	128
	JUN-SEP	93	142	175	117	210	260	150
POWDER RIVER near Locate (3)	JUN-SEP	75	134	175	124	215	275	141
YELLOWSTONE RIVER nr Sidney (2,3)	JUN-JUL	3140	3950	4500	102	5050	5860	4410
	JUN-SEP	2600	4300	5450	102	6600	8300	5340

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

(3) - Forecasts are unoffically coordinated with the NWS.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BIGHORN LAKE	1356.0	917.4	767.9	749.2
TONGUE RIVER	68.0	36.0	44.2	47.7

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
BIG HORN (Wyoming)	27	127	119
LITTLE BIGHORN	2	83	100
TONGUE RIVER (Wyoming)	5	78	111
POWDER RIVER (Wyoming)	7	81	68
YELLOWSTONE RIVER	50	112	114